WHAT IS CLAIMED IS:

- 1. A method of modifying low frequency components of a digital audio signal having left and right channel signals, the method comprising the steps of: a) filtering the left and right channels signals using respective left and right high-pass filters to form left and right high-pass filtered signals; b) filtering the left and right channel signals using respective left and right band-pass filters to form left and right low frequency signals; c) modifying the amplitude of the left and right low frequency signals to give modified left and right low frequency signals whereby signals with amplitude a where 0 < a < a1 are amplified by a first constant value C1, signals with amplitude a1 $\le a < a2$ are amplified proportional to 1/a, signals with amplitude a = 2a are unchanged, signals with amplitude a2 < a < a3 are attenuated proportional to 1/a, and signals with amplitude a = a3 are attenuated by a second constant value C2; and d) combining the modified band-pass filtered left and right signals with the respective left and right high-pass filtered signals to form respective modified left and right channel audio signals.
- 2. A method according to claim 1 wherein in step c), the amplitude a of the signal is taken to be the amplitude of the left or right low frequency signal which has the largest absolute value.
- 3. A method according to claim 2 wherein the first constant value C1 is 12.5.
- 4. A method according to claim 1 wherein the second constant value C2 is 0.5.
- 5. A method according to claim 1 wherein a1 = 0.04.
- 6. A method according to claim 1 wherein a2 = 0.5.
- 7. A method according to claim 1 wherein a3 = 1.
- 8. A method according to claim 1 wherein the digital audio signal is an MP3 encoded signal.

- 9. A method according to claim 1 wherein the digital audio signal is in WAV format.
- 10. A method according to claim 1 wherein the parameters of the band-pass filters are user selectable.
- 11. A method according to claim 1 wherein the parameters of the high-pass filters are user selectable.
- 12. A method claimed in claim 1 using a limiter having a transfer function substantially as shown in Figure 1d.
- 13. A digital signal produced using the method claimed in claim 1.